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U.S. NATIONAL INSTITUTES OF HEALTH

Division of Research Grants

NEW GRANTS AND AWARDS

Arranged by State, City and Institution

Announced During

FEBRUARY 1974

REPORT 19M

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service

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Feb.

PREPARED BY

NATIONAL INSTITUTES OF HEALTH

DIVISION OF RESEARCH GRANTS

STATISTICS AND ANALYSIS BRANCH

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SYMBOLS USED TO IDENTIFY THE SUPPORTING INSTITUTE OR DIVISION

AI NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

AM NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES

CA NATIONAL CANCER INSTITUTE

- CB DIVISION OF CANCER BIOLOGY AND DIAGNOSIS
- CN OFFICE OF CANCER CONTROL
- CM DIVISION OF CANCER TREATMENT
- CP DIVISION OF CANCER CAUSE AND PREVENTION

CL CLINICAL CENTER

CT DIVISION OF COMPUTER RESEARCH AND TECHNOLOGY

DE NATIONAL INSTITUTE OF DENTAL RESEARCH

ES NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES

EY NATIONAL EYE INSTITUTE

GM NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES

HD NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT

HL NATIONAL HEART AND LUNG INSTITUTE

- HV DIVISION OF HEART AND VASCULAR DISEASES
- HB DIVISION OF BLOOD DISEASES AND RESOURCES
- HT DIVISION OF TECHNOLOGICAL APPLICATION
- HR DIVISION OF LUNG DISEASES
- HI DIVISION OF INTRAMURAL RESEARCH
- HO OFFICE OF THE NHLI DIRECTOR

JT JOINT (TWO OR MORE SUPPORTING INSTITUTES OR DIVISIONS)

LM NATIONAL LIBRARY OF MEDICINE

NS NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND STROKE

OD OFFICE OF THE DIRECTOR, NIH

RG DIVISION OF RESEARCH GRANTS

RR DIVISION OF RESEARCH RESOURCES

RS DIVISION OF RESEARCH SERVICES

TW FOGARTY INTERNATIONAL CENTER

NIH

SUMMARY OF NEW GRANTS AND AWARDS ANNOUNCED DURING FEBRUARY 1974

INSTITUTE OR DIVISION	RESEARCH GRANTS		RESEARCH CONTRACTS		RESEARCH TRAINING GRANTS		RESEARCH FELLOWSHIPS		RESEARCH CAREER PROGRAM AWARDS		EDUCATION GRANTS		CONSTRUCTION GRANTS		MEDICAL LIBRARY GRANTS	
	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS	NO.	DOLLARS
AI	10	340,622							3	66,900						
AM	13	463,722	2	200,019												
CA	29	1,739,548														
CB			2	272,000												
CN			2	265,672												
CP			5	887,714												
DE	12	945,925														
ES	2	64,000	2	201,602												
EY	14	367,377														
GM	39	1,174,551	2	61,501												
HD	7	391,112	4	232,054												
HL	3	176,777														
LM			1	199,886											8	190,283
NS	44	1,985,007														
RR	3	413,776	1	366,667												
	176	8,062,417	21	2,687,115					3	66,900					8	190,283

* AMOUNT AWARDED INCLUDES DIRECT COST ONLY FOR NIH RESEARCH GRANTS

NIH
RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
ALABAMA			
MOBILE			
UNIVERSITY OF SOUTH ALABAMA			
HL17328-01	BLACKBURN, WILL R	LUNG GROWTH IN VIVO AND IN VITRO: HORMONAL INFLUENCES	33,404
INSTITUTION TOTAL	1	33,404	
CITY TOTAL	1	33,404	
STATE TOTAL	1	33,404	
ARIZONA			
TUCSON			
UNIVERSITY OF ARIZONA			
AI11007-01A1	JETER, WAYBURN S	IMMUNOLOGICAL CHARACTERISTICS OF TRANSFER FACTOR	39,586
NS10391-01A1	THUT, PAUL D	EFFECTS OF L-DOPA ON BRAIN SEROTONIN	26,735
NS11491-01	WETZEL, MARY C	INTERLIMB ASPECTS OF THE NEURAL CONTROL OF LOCOMOTION	52,879
INSTITUTION TOTAL	3	119,200	
CITY TOTAL	3	119,200	
STATE TOTAL	3	119,200	
CALIFORNIA			
BERKELEY			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT BERKELEY			
AM17146-01	NEILANDS, JOHN B	CHELATES FOR COOLEY'S ANEMIA AND IRON STORAGE DISEASE	42,552
INSTITUTION TOTAL	1	42,552	
CITY TOTAL	1	42,552	
DAVIS			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT DAVIS			
NS10957-01A1	WILSON, BARRY W	ACHE NERVE-MUSCLE INTERACTIONS AND MUSCULAR DYSTROPHY	25,662
INSTITUTION TOTAL	1	25,662	
CITY TOTAL	1	25,662	
LA JOLLA			
SALK INSTITUTE FOR BIOLOGICAL STUDIES			
CA15747-01	FAN, HUNG Y	CELLULAR RNA METABOLISM OF RNA TUMOR VIRUSES	50,400
RR00770-01	GUILLEMIN, ROGER C	UPGRADING LABORATORY ANIMAL FACILITY AND ANIMAL CARE	112,670
CA15561-01	JAENISCH, RUDOLF J	CELLULAR DIFFERENTIATION AND VIRAL ONCOGENESIS	52,350
INSTITUTION TOTAL	3	215,420	

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NIH
RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CALIFORNIA			
LA JOLLA			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN DIEGO			
GM20648-01	BUTLER, WARREN L	PHOTORECEPTOR PIGMENTS IN PHOTORESPONSIVE ORGANISMS	25,000
INSTITUTION TOTAL	1	25,000	
CITY TOTAL	4	240,420	
LOS ANGELES			
CALIFORNIA STATE UNIVERSITY AND COLLEGES--CALIFORNIA STATE UNIVERSITY, LOS ANGELES			
GM20793-01	BROWN, COSTELLO L	NEGATIVE ION STUDIES OF BIOORGANIC MOLECULES	26,117
INSTITUTION TOTAL	1	26,117	
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT LOS ANGELES			
CA15788-01	HILDEMANN, WILLIAM H	MECHANISMS OF IMMUNOBLOCKING VERSUS TUMOR IMMUNITY	50,000
GM21430-01	LYMAN, JOHN	ELECTROCUTANEOUS FEEDBACK FOR ARTIFICIAL LIMBS	32,700
NS10802-01A1	MEAD, JAMES F	HYDROXYLATION OF THE LONG CHAIN FATTY ACIDS OF THE BRAIN	22,142
AM17294-01	WALSH, JOHN H	HORMONAL ETIOLOGY OF GASTRIC HYPERSECRETION	72,855
RR05756-01	WEST, LOUIS J	GENERAL RESEARCH SUPPORT GRANT	176,746
INSTITUTION TOTAL	5	354,443	
CITY TOTAL	6	380,560	
SAN FRANCISCO			
CALIFORNIA STATE UNIVERSITY AND COLLEGES--CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO			
GM20817-01	LINDQUIST, ROBERT N	MECHANISMS IN ENZYMATIC CATALYSIS	14,074
INSTITUTION TOTAL	1	14,074	
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO			
GM21042-01	BISSELL, DWIGHT M, JR	REGULATION OF BIOTRANSFORMATION IN THE LIVER	39,000
AI11983-01	GOODMAN, JOEL W	INDUCTION OF CELLULAR IMMUNITY TO HAPTENS	44,195
HL15851-01A1	MELMON, KENNETH L	INTERACTION OF CARDIO AND VASOACTIVE DRUGS WITH CELLS	106,743
RR05755-01	SIMON, ALEXANDER	GENERAL RESEARCH SUPPORT GRANT	124,360
INSTITUTION TOTAL	4	314,298	
CITY TOTAL	5	328,372	
SANTA CRUZ			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SANTA CRUZ			
GM19959-01A1	MC MURRY, JOHN E	A NEW SYNTHESIS OF UNSATURATED CARBONYL COMPOUNDS	22,420
INSTITUTION TOTAL	1	22,420	
CITY TOTAL	1	22,420	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CALIFORNIA			
STANFORD			
STANFORD UNIVERSITY			
GM21149-01	HUDSON, BRUCE S	ELECTRONIC AND RAMAN SPECTRAL STUDIES OF MEMBRANES	35,000
EY01248-01	ROSENTHAL, A RALPH	COMPUTER MAPPING OF THE OPTIC NERVE HEAD	25,583
INSTITUTION TOTAL	2	60,583	
CITY TOTAL	2	60,583	
STATE TOTAL	20	1,100,569	
COLORADO			
BOULDER			
UNIVERSITY OF COLORADO			
HD08181-01	HAM, RICHARD G	PROGRAM PROJECT: CELL BIOLOGY OF AGING	107,961
INSTITUTION TOTAL	1	107,961	
CITY TOTAL	1	107,961	
DENVER			
UNIVERSITY OF COLORADO MEDICAL CENTER			
NS10832-01A1	JOHNSON, ERNEST W	TROPHIC INTERACTIONS AT SYNAPSES	24,925
NS10709-01A1	SEEDS, NICHOLAS W	GTP AND TUBULIN STRUCTURE	32,188
INSTITUTION TOTAL	2	57,113	
CITY TOTAL	2	57,113	
STATE TOTAL	3	165,074	
CONNECTICUT			
FARMINGTON			
UNIVERSITY OF CONNECTICUT HEALTH CENTER			
DE03758-01	FREEDMAN, MICHAEL L	DETERMINANTS OF VIRULENCE IN STREPTOCOCCUS MUTANS	118,618
AM17309-01	ZURIER, ROBERT B	BIOLOGICAL EFFECTS OF LYSOSOMAL ENZYME RELEASE	48,459
INSTITUTION TOTAL	2	167,077	
CITY TOTAL	2	167,077	
NEW HAVEN			
YALE UNIVERSITY			
HD08280-01	EISENFELD, ARNOLD J	CONTRACEPTIVE RECEPTOR MECHANISMS	60,286
INSTITUTION TOTAL	1	60,286	
CITY TOTAL	1	60,286	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CONNECTICUT			
STORRS			
UNIVERSITY OF CONNECTICUT			
GM20500-01A1	HUTCHINSON, C RICHARD	BIOGENETIC C-13 ENRICHMENT OF NATURAL PRODUCT DRUGS	34,162
INSTITUTION TOTAL	1	34,162	
CITY TOTAL	1	34,162	
STATE TOTAL	4	261,525	
DIST OF COL			
WASHINGTON			
GEORGE WASHINGTON UNIVERSITY			
CA15686-01	MANTEL, NATHAN	CANCER EPIDEMIOLOGY: STATISTICAL METHODS	52,693
INSTITUTION TOTAL	1	52,693	
GEORGETOWN UNIVERSITY			
AM17431-01	RECANT, LILLIAN	ROLE OF CAMP IN INSULIN AND GLUCAGON SECRETION	25,886
INSTITUTION TOTAL	1	25,886	
CITY TOTAL	2	78,579	
STATE TOTAL	2	78,579	
FLORIDA			
GAINESVILLE			
STATE UNIVERSITY OF FLORIDA SYSTEM--UNIVERSITY OF FLORIDA			
GM21056-01	HENCH, LARRY L	INTERFACIAL BEHAVIOR OF BIOMATERIALS	154,000
INSTITUTION TOTAL	1	154,000	
CITY TOTAL	1	154,000	
MIAMI			
UNIVERSITY OF MIAMI			
NS11552-01	MC AFEE, DONALD A	METABOLIC ASPECTS OF SYNAPTIC TRANSMISSION	30,345
INSTITUTION TOTAL	1	30,345	
CITY TOTAL	1	30,345	
STATE TOTAL	2	184,345	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
GEORGIA			
ATLANTA			
EMORY UNIVERSITY			
NS11418-01	KIBLER, ROBERT F	STUDIES IN DEMYELINATING DISEASES	223,482
GM20336-01	MENGER, FREDRIC M	HYDROCARBON-WATER CONTACT, A BIOORGANIC APPROACH	15,104
NS11069-01A1	NANDY, KALIDAS	EFFECT OF CENTROPHENOXINE ON LIPOFUSCIN PIGMENT	37,050
HD08228-01	REICHERT, LEO E, JR	TESTICULAR RECEPTORS OF FOLLICLE-STIMULATING HORMONE	52,336
INSTITUTION TOTAL	4	327,972	
CITY TOTAL	4	327,972	
STATE TOTAL	4	327,972	
HAWAII			
HONOLULU			
UNIVERSITY OF HAWAII SYSTEM--UNIVERSITY OF HAWAII AT MANOA			
GM21085-01	YASUNOBU, KERRY T	INVESTIGATIONS OF BOVINE LYSYL OXIDASE AND ELASTIN	25,000
INSTITUTION TOTAL	1	25,000	
CITY TOTAL	1	25,000	
STATE TOTAL	1	25,000	
ILLINOIS			
CARBONDALE			
SOUTHERN ILLINOIS UNIVERSITY			
EY01275-01	HARGRAVE, PAUL A	RHODOPSIN STRUCTURE AND FUNCTION	16,628
INSTITUTION TOTAL	1	16,628	
CITY TOTAL	1	16,628	
CHICAGO			
AMERICAN COLLEGE OF RADIOLOGY			
CA15978-01	KRAMER, SIMON	CLINICAL AND RESEARCH RADIATION THERAPY IN CANCER CARE	326,402
INSTITUTION TOTAL	1	326,402	
HEKTOEN INSTITUTE FOR MEDICAL RESEARCH			
GM20730-01	LIU, MAI-SHIAN	PERFLUOROCTYLBROMIDE IN MYELOGRAPHY AND LYMPHOGRAPHY	69,340
INSTITUTION TOTAL	1	69,340	
ILLINOIS INSTITUTE OF TECHNOLOGY			
NS11556-01	RAJAN, KRISHNASWAMY S	STUDY OF METAL CHELATES OF L-DOPA FOR PARKINSONISM	4,987
INSTITUTION TOTAL	1	4,987	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
ILLINOIS			
CHICAGO			
NORTHWESTERN UNIVERSITY			
NS11559-01	LEESTMA, JAN E	PATHOLOGICAL ASPECTS OF NEUROPLASMIC FLOW	23,820
INSTITUTION TOTAL	1	23,820	
RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER--RUSH UNIVERSITY			
ES00775-01A1	CLASEN, RAYMOND A	EXPERIMENTAL LEAD ENCEPHALOPATHY	14,300
INSTITUTION TOTAL	1	14,300	
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE			
AM17357-01	OSCAI, LAWRENCE B	EFFECT OF EXERCISE ON ADIPOSE TISSUE CELLULARITY	26,352
INSTITUTION TOTAL	1	26,352	
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER			
NS10921-01A1	RADULOVACKI, MIODRAG	SLEEP, HYPNOTICS AND BRAIN MONOAMINE METABOLISM	25,523
INSTITUTION TOTAL	1	25,523	
CITY TOTAL	7	490,724	
URBANA			
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT URBANA			
ES00997-01	NATUSCH, DAVID F	INTERACTIONS OF TOXIC METAL SPECIES WITH BIOMOLECULES	49,700
GM21130-01	ORDAL, GEORGE W	PHOTOTACTIC AND CHEMOTACTIC BEHAVIOR OF BACTERIA	36,600
GM18362-01A1	YANKWICH, PETER E	MODELING THE TRANSITION STATE OF ENZYMIC REACTIONS	21,053
INSTITUTION TOTAL	3	107,353	
CITY TOTAL	3	107,353	
STATE TOTAL	11	614,705	
INDIANA			
LAFAYETTE			
PURDUE UNIVERSITY			
NS11383-01	MITTENTHAL, JAY E	SYNAPTIC CONNECTIVITY IN MOTOR SYSTEMS	41,982
INSTITUTION TOTAL	1	41,982	
CITY TOTAL	1	41,982	
STATE TOTAL	1	41,982	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
IOWA			
AMES			
IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY			
AI11752-01	WARNER, CAROL M	THE IMMUNE RESPONSE OF ALLOPHENIC MICE	30,994
INSTITUTION TOTAL 1	30,994		
CITY TOTAL 1	30,994		
IOWA CITY			
UNIVERSITY OF IOWA			
NS10825-01A1	MURPHEY, RODNEY K	GROWTH OF IDENTIFIED NEURONS: EFFECT OF DEPRIVATION	28,334
CA15825-01	PARSONS, JONATHAN A	DEVELOPMENT OF NEOPLASTIC PITUITARY TUMOR CELLS	27,128
NS11310-01	ROSKOSKI, ROBERT, JR	STUDY OF BIOSYNTHESIS OF NEUROTRANSMITTERS	54,447
CA15104-01	SHERMAN, BARRY M	ANOVULATION AND THE EPIDEMIOLOGY OF BREAST CANCER	86,955
INSTITUTION TOTAL 4	196,864		
CITY TOTAL 4	196,864		
STATE TOTAL 5	227,858		
KANSAS			
KANSAS CITY			
UNIVERSITY OF KANSAS			
NS11353-01	NELSON, STANLEY R	ENERGY REQUIREMENTS FOR NEURONAL ACTIVITY	16,965
INSTITUTION TOTAL 1	16,965		
CITY TOTAL 1	16,965		
LAWRENCE			
UNIVERSITY OF KANSAS			
GM20198-01	SCHOWEN, RICHARD L	ENZYME-EFFECTOR DESIGN: PROTON INVENTORIES	50,000
INSTITUTION TOTAL 1	50,000		
CITY TOTAL 1	50,000		
STATE TOTAL 2	66,965		
LOUISIANA			
BATON ROUGE			
LOUISIANA STATE UNIVERSITY SYSTEM--LOUISIANA STATE UNIVERSITY AT BATON ROUGE			
GM20645-01	EVILIA, RONALD F	STUDIES ON CHROMATOGRAPHIC SEPARATIONS OF ENANTIOMERS	21,359
GM17652-01A1	HOUK, KENDALL N	THE APPLICATION OF NEW CYCLOADDITIONS TO DRUG SYNTHESIS	23,000
INSTITUTION TOTAL 2	44,359		

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	2	44,359	
LOUISIANA			
NEW ORLEANS			
LOUISIANA STATE UNIVERSITY SYSTEM--LOUISIANA STATE UNIVERSITY AT NEW ORLEANS			
GM19335-01A2	GOLDBERG, STANLEY I	STEREOCHEMICAL CRITERIA FOR THE MICELLE-ENZYME ANALOGY	22,685
INSTITUTION TOTAL	1	22,685	
TULANE UNIVERSITY			
NS11580-01	HAARSTAD, VERNON B	NEW NEUROPHARMACOLOGIC TOOLS FOR CHOLINERGIC STUDIES	33,083
NS11393-01	SEED, JOHN R	NEUROLOGICAL LESIONS DURING AFRICAN TRYPANOSOMIASIS	15,118
INSTITUTION TOTAL	2	48,201	
CITY TOTAL	3	70,886	
STATE TOTAL	5	115,245	
MAINE			
BAR HARBOR			
JACKSON LABORATORY			
HD08431-01	KOZAK, LESLIE P	BIOCHEMICAL GENETICS OF OVARIAN & TESTICULAR TERATOMAS	23,346
INSTITUTION TOTAL	1	23,346	
CITY TOTAL	1	23,346	
STATE TOTAL	1	23,346	
MARYLAND			
BALTIMORE			
UNIVERSITY OF MARYLAND SYSTEM--UNIVERSITY OF MARYLAND PROFESSIONAL SCHOOLS			
AI12018-01	FISET, PAUL	HUMAN PERINATAL INFECTIONS WITH COXIELLA BURNETI	24,396
NS11822-01A1	YUNG-FENG, CHANG	METABOLISM AND INHIBITION OF LYSINE	30,880
INSTITUTION TOTAL	2	55,276	
CITY TOTAL	2	55,276	
COLLEGE PARK			
UNIVERSITY OF MARYLAND SYSTEM--UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS			
AM17458-01	AMMON, HERMAN L	CONFORMATIONAL ANALYSIS OF THYROID HORMONE ANALOGS	16,705
DE03674-01	COLWELL, RITA R	DATA PROCESSING APPLIED TO ECOLOGY OF ORAL FLORA	42,020
DE03631-01	HAMLET, SANDRA L	PHYSIOLOGICAL STUDY OF SPEECH ADAPTATION	25,481
INSTITUTION TOTAL	3	84,206	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	3	84,206	
STATE TOTAL	5	139,482	
MASSACHUSETTS			
BOSTON			
BOSTON BIOMEDICAL RESEARCH INSTITUTE			
EY00810-01A3	JACOBSON, BERNARD J	ROLE OF HYALOCYTES IN THE VITREOUS BODY	27,535
INSTITUTION TOTAL	1	27,535	
BOSTON UNIVERSITY			
CA15683-01	HERRMANN, ROBERT L	PHOSPHOPROTEINS AND PHOSPHORYLATING ENZYMES IN NEOPLASIA	20,190
NS11481-01	LANG, FREDERICK	NEUROTROPHIC INFLUENCES ON DEVELOPING MUSCLE	21,593
NS11588-01	POLITOFF, ALBERTO L	BIO-ASSAY OF NERVE TROPHIC SUBSTANCES	34,798
DE03565-01	WELLS, HERBERT	ORAL CARCINOGENIC ACTIONS OF BETEL NUT AND TOBACCO	51,845
INSTITUTION TOTAL	4	128,426	
CHILDREN'S HOSPITAL MEDICAL CENTER			
NS11504-01	SHELANSKI, MICHAEL L	PATHOLOGY & BIOLOGY OF THE NEURONAL FIBROUS PROTEINS	76,021
INSTITUTION TOTAL	1	76,021	
HARVARD UNIVERSITY			
EY01276-01	CHYLACK, LEO T, JR	LENS METABOLISM AND CATARACT FORMATION	44,376
CA15579-01	DE PAMPHILIS, MELVIN L	TUMOR VIRUS DNA REPLICATION; A PROBE INTO ONCOGENESIS	47,084
INSTITUTION TOTAL	2	91,460	
MASSACHUSETTS GENERAL HOSPITAL			
NS11600-01	MILLER, KEITH W	MEMBRANE CONCENTRATIONS OF DRUGS AND TOXIC COMPOUNDS	21,627
NS10828-01A1	TAVERAS, JUAN M	AN INTERDEPARTMENTAL STROKE PROGRAM	278,267
INSTITUTION TOTAL	2	299,894	
RETINA FOUNDATION			
EY01246-01	BERMAN, MICHAEL B	SERUM ANTIPROTEASES AND CORNEAL ULCERATION	23,200
EY01199-01	CINTRON, CHARLES	CORNEAL MACROMOLECULES AND SCAR FORMATION	23,453
INSTITUTION TOTAL	2	46,653	
UNIVERSITY HOSPITAL			
AM17215-01	BRANDT, KENNETH D	PROTEOGLYCANS IN AGING AND OSTEOARTHRITIC CARTILAGE	27,170
INSTITUTION TOTAL	1	27,170	
CITY TOTAL	13	697,159	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
MASSACHUSETTS			
CAMBRIDGE			
MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
DE03770-01	DRUMMOND, JAMES F	ENDOTOXINS AND ETIOLOGY OF PERIODONTITIS	31,016
CA15808-01	GOTTLIEB, PAUL D	GENETIC MARKERS, LEUKEMOGENESIS AND THYMIC FUNCTION	43,844
GM19706-01A1	LELE, PADMAKAR P	EFFECTS OF ULTRASOUND ON CELL GROWTH AND DIVISION	38,960
INSTITUTION TOTAL	3	113,820	
CITY TOTAL	3	113,820	
SHREWSBURY			
WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY			
HD08034-01	LONGCOPE, CHRISTOPHER	REPRODUCTIVE FUNCTION AND GONADAL STEROID DYNAMICS	57,475
INSTITUTION TOTAL	1	57,475	
CITY TOTAL	1	57,475	
WORCESTER			
UNIVERSITY OF MASSACHUSETTS SYSTEM--UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL			
NS11329-01	SINGER, ROBERT H	MESSENGER RNA METABOLISM IN DIFFERENTIATING CELLS	26,942
NS11425-01	WOLF, MERRILL K	DEVELOPMENT IN VITRO OF NORMAL AND MUTANT CNS	39,115
INSTITUTION TOTAL	2	66,057	
CITY TOTAL	2	66,057	
STATE TOTAL	19	934,511	
MICHIGAN			
ANN ARBOR			
UNIVERSITY OF MICHIGAN			
CA15775-01	MATOVINOVIC, JOSIP	STUDIES OF EPIGENETIC PROCESSES IN THYROID CARCINOMA	27,546
GM19853-01	NAPIER, EDWARD A, JR	METABOLISM OF COMMON PLASTICIZERS	17,000
GM19863-01	RUDDON, RAYMOND W	ROLE OF ACIDIC NUCLEAR PROTEINS IN ENZYME INDUCTION	18,000
AI11962-01	SHREFFLER, DONALD C	GENETICS OF H-2(IR)-CONTROLLED T-LYMPHOCYTE ANTIGENS	18,000
INSTITUTION TOTAL	4	80,546	
CITY TOTAL	4	80,546	
DETROIT			
WAYNE STATE UNIVERSITY			
AI11923-01	LIGHTBODY, JAMES J	PRESENSITIZATION IN KIDNEY TRANSPLANTS	29,745
GM20424-01	RORABACHER, DAVID B	MACROCYCLIC LIGAND KINETICS: POLYTHIAETHER COMPLEXES	43,649
INSTITUTION TOTAL	2	73,394	

* DOLLARS AWARDED INCLUDE DIRECT COST ONLY FOR NIH RESEARCH GRANTS

NIH
RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	2	73,394	
STATE TOTAL	6	153,940	
MINNESOTA			
MINNEAPOLIS			
UNIVERSITY OF MINNESOTA			
AM16566-01A1	NAJARIAN, JOHN S	ISOLATION AND TRANSPLANTATION OF PANCREATIC ISLETS	55,127
DE03688-01	NELSON, KENNETH G	RATE OF SN3F3PO4 FORMATION ON TOOTH MINERAL	40,324
INSTITUTION TOTAL	2	95,451	
CITY TOTAL	2	95,451	
ROCHESTER			
MAYO FOUNDATION			
NS11436-01	HOWARD, FRANK M, JR	PREDNISONE IN MYASTHENIA GRAVIS	18,020
INSTITUTION TOTAL	1	18,020	
CITY TOTAL	1	18,020	
STATE TOTAL	3	113,471	
MISSOURI			
SAINT LOUIS			
WASHINGTON UNIVERSITY			
AM16226-01A1	GELLER, DAVID M	MECHANISM AND CONTROL OF SERUM ALBUMIN BIOSYNTHESIS	34,730
INSTITUTION TOTAL	1	34,730	
CITY TOTAL	1	34,730	
STATE TOTAL	1	34,730	
MONTANA			
BOZEMAN			
MONTANA STATE UNIVERSITY			
GM19783-01A1	JENNINGS, P W	A STUDY OF ACTION AND METABOLIC FATE OF LIVER TOXINS	18,500
INSTITUTION TOTAL	1	18,500	
CITY TOTAL	1	18,500	
STATE TOTAL	1	18,500	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
NEW JERSEY			
NEW BRUNSWICK			
RUTGERS--THE STATE UNIVERSITY			
AM17495-01	JORDAN, FRANK	PROBES OF THIAMINE PYROPHOSPHATE, MG(11) ENZYMES	20,400
INSTITUTION TOTAL 1		20,400	
CITY TOTAL 1		20,400	
PISCATAWAY			
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY--RUTGERS MEDICAL SCHOOL			
NS11340-01	BROSTROM, CHARLES O	CONTROL OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASE	29,330
NS11295-01	GELLER, HERBERT M	MECHANISMS OF INTERNEURONAL COMMUNICATION IN CULTURE	23,423
NS11299-01	ROISEN, FRED J	STUDIES ON NERVE DEVELOPMENT	36,708
INSTITUTION TOTAL 3		89,461	
CITY TOTAL 3		89,461	
STATE TOTAL 4		109,861	
NEW YORK			
ALBANY			
UNION COLLEGE AND UNIVERSITY SYSTEM--ALBANY MEDICAL COLLEGE			
NS11384-01	POULOS, DENNIS A	CENTRAL PROCESSING OF TEMPERATURE INFORMATION	34,994
EY01371-01	REINECKE, ROBERT D	SUPPORT FOR CONFERENCE ON EYE RESEARCH	10,000
INSTITUTION TOTAL 2		44,994	
CITY TOTAL 2		44,994	
BUFFALO			
NEW YORK STATE DEPARTMENT OF HEALTH--ROSWELL PARK MEMORIAL INSTITUTE			
GM19883-01	FIEL, ROBERT J	MODEL GENE REGULATORS OF POLYANIONS	27,000
NS10941-01A1	SHEDD, DONALD P	REED FISTULA SPEECH FOLLOWING PHARYNGOLARYNGECTOMY	9,874
INSTITUTION TOTAL 2		36,874	
STATE UNIVERSITY OF NEW YORK AT BUFFALO			
DE03689-01	NEIDERS, MIRDZA E	INTERACTIONS OF CELLS WITH TOOTH SURFACES	16,255
INSTITUTION TOTAL 1		16,255	
CITY TOTAL 3		53,129	
ITHACA			
CORNELL UNIVERSITY			
GM21159-01	SCHULTZ, ARTHUR G	VINYL SULFIDES IN ORGANIC SYNTHESIS	21,000

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
INSTITUTION TOTAL	1	21,000	
CITY TOTAL	1	21,000	
NEW YORK			
NEW YORK			
CITY UNIVERSITY OF NEW YORK--BROOKLYN COLLEGE			
NS10843-01A1	OSMAN, ELI	DETECTION AND RECOGNITION IN AUDITION AND VISION	34,560
INSTITUTION TOTAL	1	34,560	
CITY UNIVERSITY OF NEW YORK--MOUNT SINAI SCHOOL OF MEDICINE			
EY01278-01	BENTLEY, PETER J	PHARMACOLOGY OF LENTICULAR ION TRANSPORT	13,384
AM16317-01	NICOLIS, GIORGIO L	HORMONAL STEROIDS IN HUMAN ADRENAL VENOUS BLOOD	26,747
INSTITUTION TOTAL	2	40,131	
MONTEFIORE HOSPITAL AND MEDICAL CENTER			
AM17370-01	LAZARUS, GERALD S	MECHANISMS OF PROTEOLYSIS IN HUMAN SKIN	53,629
INSTITUTION TOTAL	1	53,629	
NEW YORK CITY HEALTH SERVICES ADMINISTRATION--HEALTH DEPARTMENT			
GM21073-01	OISHI, MICHIO	THE MOLECULAR MECHANISM OF GENETIC RECOMBINATION	49,685
INSTITUTION TOTAL	1	49,685	
NEW YORK UNIVERSITY			
DE03568-01A2	CONVERSE, JOHN M	CRANIOFACIAL ANOMALIES - ETIOLOGY AND TREATMENT	434,202
CA12989-01A2	CRAVIOTO, HUMBERTO M	IMMUNOLOGICAL STUDIES OF EXPERIMENTAL BRAIN TUMORS	40,040
CA15516-01	KUHNS, WILLIAM J	ABO(H) BLOOD GROUPS AND BLOOD GROUP ENZYMES IN CANCER	31,622
INSTITUTION TOTAL	3	505,864	
ROCKEFELLER UNIVERSITY			
CA16006-01	DARNELL, JAMES E, JR	RNA AND GROWTH CONTROL IN ANIMAL CELLS	123,947
GM21059-01	LUCK, DAVID J	BIOGENESIS OF MITOCHONDRIA	28,000
INSTITUTION TOTAL	2	151,947	
SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH			
HD08415-01	HAMMERLING, ULRICH G	T-LYMPHOCYTES FROM PRECURSOR CELLS IN VITRO	57,000
INSTITUTION TOTAL	1	57,000	
CITY TOTAL	11	892,816	

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
NEW YORK			
ROCHESTER			
UNIVERSITY OF ROCHESTER			
EY01319-01	BROWN, JOHN L	VISUAL SCIENCE RESEARCH CENTER SUPPORT	52,804
INSTITUTION TOTAL	1	52,804	
CITY TOTAL	1	52,804	
STONY BROOK			
STATE UNIVERSITY OF NEW YORK AT STONY BROOK			
HD07986-01	JONES, RAYMOND F	ENZYME TURNOVER DURING GROWTH AND DEVELOPMENT	32,708
INSTITUTION TOTAL	1	32,708	
CITY TOTAL	1	32,708	
SYRACUSE			
STATE UNIVERSITY OF NEW YORK--UPSTATE MEDICAL CENTER			
CA15462-01	ARGYRIS, BERTIE F	CELL INTERACTIONS IN THE REJECTION OF TUMOR TRANSPLANTS	40,117
INSTITUTION TOTAL	1	40,117	
SYRACUSE UNIVERSITY			
EY01215-01	HARTH, ERICH	VISUAL RECEPTIVE FIELDS BY A NEW METHOD	35,811
INSTITUTION TOTAL	1	35,811	
CITY TOTAL	2	75,928	
STATE TOTAL	21	1,173,379	
NORTH CAROLINA			
CHAPEL HILL			
UNIVERSITY OF NORTH CAROLINA SYSTEM--UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL			
CA15171-01	HODGSON, DEREK J	STRUCTURES OF ANTITUMOR AZAPURINES AND AZAPYRIMIDINES	27,328
GM21099-01	PERL, EDWARD R	A CONTROLLED STUDY OF ACUPUNCTURE AND SKIN SENSATION	20,000
INSTITUTION TOTAL	2	47,328	
CITY TOTAL	2	47,328	
DURHAM			
DUKE UNIVERSITY			
NS11362-01	ESCUETA, ANTONIO V	ROLE OF (NA+K) PUMP ON BRAIN SYNAPSES IN EPILEPSY	39,380
INSTITUTION TOTAL	1	39,380	
CITY TOTAL	1	39,380	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
STATE TOTAL	3	86,708	
OHIO			
COLUMBUS			
OHIO STATE UNIVERSITY			
GM20002-01	BEHRMAN, EDWARD J	SYNTHESIS OF BETA-GLYCOSYL NUCLEOTIDES	10,800
GM20322-01	GASSMAN, PAUL G	A STEREOSPECIFIC FUNCTIONALIZATION OF AROMATIC AMINES	15,990
INSTITUTION TOTAL	2	26,790	
CITY TOTAL	2	26,790	
GRANVILLE			
DENISON UNIVERSITY			
NS11507-01	WINDLE, WILLIAM F	CENTRAL NERVOUS REGENERATION: HORMONAL INFLUENCES	15,346
INSTITUTION TOTAL	1	15,346	
CITY TOTAL	1	15,346	
STATE TOTAL	3	42,136	
OKLAHOMA			
OKLAHOMA CITY			
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER			
DE03709-01	HOWES, ROBERT I, JR	ROOT FORMATION IN LOWER VERTEBRATE TOOTH TRANSPLANTS	18,635
INSTITUTION TOTAL	1	18,635	
CITY TOTAL	1	18,635	
STATE TOTAL	1	18,635	
OREGON			
PORTLAND			
OREGON STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF OREGON MEDICAL SCHOOL			
NS11264-01	HAMMERSTAD, JOHN P	AMINO ACIDS AS NEUROTRANSMITTERS	22,761
INSTITUTION TOTAL	1	22,761	
CITY TOTAL	1	22,761	
STATE TOTAL	1	22,761	
PENNSYLVANIA			
HERSHEY			
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER			
CA15858-01	LIPTON, ALLAN	CONTROL OF GROWTH OF MALIGNANT CELLS BY SERUM FACTORS	63,490

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
INSTITUTION TOTAL	1	63,490	
CITY TOTAL	1	63,490	
PENNSYLVANIA			
PHILADELPHIA			
INSTITUTE FOR CANCER RESEARCH			
CA15135-01	ZWEIDLER, ALFRED	HISTONES IN CELL DIFFERENTIATION AND CARCINOGENESIS	33,500
INSTITUTION TOTAL	1	33,500	
MEDICAL COLLEGE OF PENNSYLVANIA			
AM17549-01	LEVISON, MATTHEW E	ROLE OF SHORT CHAIN FATTY ACIDS IN HEPATIC COMA	13,110
INSTITUTION TOTAL	1	13,110	
PENNSYLVANIA HOSPITAL			
NS11186-01A1	SIMEONE, FREDERICK A	REGIONAL CEREBRAL METABOLISM AND BLOOD FLOW	35,334
INSTITUTION TOTAL	1	35,334	
TEMPLE UNIVERSITY			
DE03685-01	NOWOTNY, ALOIS H	ROLE OF BACTERIAL PRODUCTS IN PERIODONTAL DISEASE	108,809
CA14040-01A1	REICHLE, FREDERICK A	INFLUENCE OF PORTACAVAL SHUNT ON TUMOR GROWTH	35,600
AI12066-01	SUHADOLNIK, ROBERT J	NUCLEOSIDE ANALOGS: BIOSYNTHESIS & ROLE IN THE CELL	51,246
INSTITUTION TOTAL	3	195,655	
UNIVERSITY OF PENNSYLVANIA			
GM18028-01A2	JOULLIE, MADELEINE M	SYNTHESIS OF POTENTIAL DIURETIC AND HYPOGLYCEMIC AGENTS	19,683
INSTITUTION TOTAL	1	19,683	
CITY TOTAL	7	297,282	
PITTSBURGH			
CARNEGIE-MELLON UNIVERSITY			
GM21128-01	NAGLE, JOHN F	BIOMEMBRANE TRANSITIONS: DENSITY MEASUREMENTS	24,300
INSTITUTION TOTAL	1	24,300	
CITY TOTAL	1	24,300	
UNIVERSITY PARK			
PENNSYLVANIA STATE UNIVERSITY			
GM21080-01	FAHNESTOCK, STEPHEN R	DEFECTIVE PROTEIN SYNTHESIS BY MODIFIED RIBOSOMES	25,875
INSTITUTION TOTAL	1	25,875	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	1	25,875	
STATE TOTAL	10	410,947	
RHODE ISLAND			
KINGSTON			
UNIVERSITY OF RHODE ISLAND			
CA15898-01	TURCOTTE, JOSEPH G	CYTOTOXIC AGENTS AFFECTING CELL MEMBRANE BIOGENESIS	39,480
INSTITUTION TOTAL	1	39,480	
CITY TOTAL	1	39,480	
STATE TOTAL	1	39,480	
SOUTH CAROLINA			
CHARLESTON			
MEDICAL UNIVERSITY OF SOUTH CAROLINA			
NS11830-01	PEROT, PHANOR L, JR	SPINAL CORD INJURY WORKSHOP	5,000
INSTITUTION TOTAL	1	5,000	
CITY TOTAL	1	5,000	
COLUMBIA			
UNIVERSITY OF SOUTH CAROLINA			
EY01201-01	LEFTON, LESTER A	LATERAL INHIBITION AND METACONTRAST	10,443
INSTITUTION TOTAL	1	10,443	
CITY TOTAL	1	10,443	
STATE TOTAL	2	15,443	
TENNESSEE			
MEMPHIS			
ST. JUDE CHILDREN'S RESEARCH HOSPITAL			
CA15956-01	MAUER, ALVIN M	A STUDY OF LEUKOKINETICS IN ACUTE LEUKEMIA WITH DFP32	67,270
INSTITUTION TOTAL	1	67,270	
CITY TOTAL	1	67,270	
STATE TOTAL	1	67,270	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
TEXAS			
DALLAS			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS			
AI11893-01	KETTMAN, JOHN R, JR	SPECIFIC ACTIVATION OF T AND B LYMPHOCYTES	31,500
AI11879-01	KLEIN, JAN	POLYMORPHISM OF A MAJOR HISTOCOMPATIBILITY COMPLEX	45,000
INSTITUTION TOTAL	2	76,500	
CITY TOTAL	2	76,500	
GALVESTON			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON			
NS11354-01	HUTCHISON, HARROL T	NEURON-GLIA INTERACTION IN VITRO CHOLINERGIC SYSTEMS	19,053
NS11255-01	WILLIS, WILLIAM D, JR	COMPARATIVE NEUROBIOLOGY	336,794
INSTITUTION TOTAL	2	355,847	
CITY TOTAL	2	355,847	
HOUSTON			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON			
NS11484-01	GUYNN, ROBERT W	EFFECT OF SEIZURE UPON ENERGY METABOLISM IN BRAIN	12,776
INSTITUTION TOTAL	1	12,776	
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS SYSTEM CANCER CENTER			
CA15250-01	GEHAN, EDMUND A	DECISION MAKING FOR PATIENTS WITH ACUTE LEUKEMIA	110,005
CA14986-01	HERSH, EVAN M	INHIBITORS OF NORMAL AND MALIGNANT LYMPHOID TISSUE	43,020
INSTITUTION TOTAL	2	153,025	
CITY TOTAL	3	165,801	
LUBBOCK			
TEXAS TECH UNIVERSITY			
NS11406-01	LOMBARDINI, JOHN B	ENZYMATIC SYNTHESIS AND FUNCTION OF ISETHIONIC ACID	15,400
INSTITUTION TOTAL	1	15,400	
CITY TOTAL	1	15,400	
STATE TOTAL	8	613,548	
UTAH			
SALT LAKE CITY			
UTAH STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF UTAH			
AI11950-01	BURKE, JOHN P	CONTROL OF HOSPITAL-ACQUIRED URINARY TRACT INFECTIONS	25,960

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RESEARCH GRANTS *

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
UTAH			
SALT LAKE CITY			
UTAH STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF UTAH			
CA15811-01	HIBBS, JOHN B, JR	STUDY OF HOST RESISTANCE TO CANCER	51,479
EY01316-01	KRIPKE, BERNARD R	ORGANIZATION OF STRIATE CORTEX	25,659
GM19557-01	POULTER, C DALE	MODEL STUDIES OF SQUALENE BIOSYNTHESIS	10,900
INSTITUTION TOTAL	4	113,998	
CITY TOTAL	4	113,998	
STATE TOTAL	4	113,998	
VERMONT			
BURLINGTON			
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE			
GM20226-01	LAMBERT, LLOYD M, JR	MAGNETOSONIC IMAGE CONVERTER	15,470
INSTITUTION TOTAL	1	15,470	
CITY TOTAL	1	15,470	
STATE TOTAL	1	15,470	
VIRGINIA			
RICHMOND			
VIRGINIA COMMONWEALTH UNIVERSITY			
CA15923-01	SHELTON, KEITH R	NONHISTONE PROTEINS OF REACTIVATED ERYTHROCYTE NUCLEI	31,510
INSTITUTION TOTAL	1	31,510	
CITY TOTAL	1	31,510	
STATE TOTAL	1	31,510	
WASHINGTON			
RICHLAND			
BATTELLE MEMORIAL INSTITUTE--PACIFIC NORTHWEST LABORATORIES			
GM20661-01	SIKOV, MELVIN R	EFFECT OF EXPOSURE OF THE PRENATAL RAT TO ULTRASOUND	40,500
INSTITUTION TOTAL	1	40,500	
CITY TOTAL	1	40,500	
SEATTLE			
UNIVERSITY OF WASHINGTON			
CA14888-01A1	ALEXANDER, E RUSSELL	HERPES GENITALIS IN THE ADOLESCENT VS MATURE MONKEY	74,927

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
WASHINGTON			
SEATTLE			
UNIVERSITY OF WASHINGTON			
EY01311-01	BUNT, ANN H	PROTEIN TRANSPORT IN RETINAL PHOTORECEPTORS AND AXONS	22,696
NS11563-01	SOSO, MICHAEL J	PSYCHOPHYSICAL STUDY OF PATTERN-SENSITIVE EPILEPSY	15,881
INSTITUTION TOTAL	3	113,504	
CITY TOTAL	3	113,504	
STATE TOTAL	4	154,004	
WEST VIRGINIA			
MORGANTOWN			
WEST VIRGINIA UNIVERSITY			
EY01217-01	TROTTER, ROBERT R	ADRENERGIC AND CHOLINERGIC INTERACTIONS IN THE EYE	35,805
INSTITUTION TOTAL	1	35,805	
CITY TOTAL	1	35,805	
STATE TOTAL	1	35,805	
WISCONSIN			
MADISON			
UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN-MADISON			
NS11445-01	CLARK, ALLEN W	TRANSMITTER RELEASE FROM THE NEUROMUSCULAR JUNCTION	31,463
CA15613-01	KAESBERG, PAUL J	TRANSLATION OF RNA VIRUS MESSENGERS	51,705
CA15785-01	MILLER, JAMES A	METABOLIC ACTIVATION OF CHEMICAL CARCINOGENS	52,977
GM20327-01A1	WELLING, PETER G	FACTORS INFLUENCING GASTROINTESTINAL DRUG ABSORPTION	19,000
HL17239-01A1	ZACHMAN, RICHARD D	ENZYMES FOR LECITHIN SYNTHESIS IN NEONATAL HUMAN LUNG	36,630
INSTITUTION TOTAL	5	191,775	
CITY TOTAL	5	191,775	
STATE TOTAL	5	191,775	
AUSTRALIA			
PARKVILLE			
UNIVERSITY OF MELBOURNE			
CA15600-01	WARNER, NOEL L	VIRAL AND OTHER ANTIGENS OF MURINE PLASMACYTOMAS	36,939
INSTITUTION TOTAL	1	36,939	
CITY TOTAL	1	36,939	
STATE TOTAL	1	36,939	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
ISRAEL			
JERUSALEM			
HEBREW UNIVERSITY			
GM20483-01	CEDAR, HOWARD	TRANSCRIPTION OF CHROMATIN IN VITRO	38,320
INSTITUTION TOTAL	1	38,320	
CITY TOTAL	1	38,320	
STATE TOTAL	1	38,320	
MALAYSIA			
KUALA LUMPUR			
UNIVERSITY OF MALAYA			
GM21165-01	LEE, DAVID W	ANALYSIS OF LECTINS IN TROPICAL RAIN-FOREST PLANTS	5,305
INSTITUTION TOTAL	1	5,305	
CITY TOTAL	1	5,305	
STATE TOTAL	1	5,305	
NORWAY			
BERGEN			
UNIVERSITY OF BERGEN			
DE03821-01	SELVIG, KUNT A	ROLE OF DENTAL PLAQUE IN PERIODONTAL PATHOLOGY	24,735
INSTITUTION TOTAL	1	24,735	
CITY TOTAL	1	24,735	
STATE TOTAL	1	24,735	
SWEDEN			
GOTHENBURG			
GOTHENBURG UNIVERSITY			
DE03803-01	LINDHE, JAN T	STUDY OF PERIODONTITIS	33,985
INSTITUTION TOTAL	1	33,985	
CITY TOTAL	1	33,985	
STATE TOTAL	1	33,985	
TOTAL	176	8,062,417	

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NIH
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR		SCOPE OF WORK	DOLLARS AWARDED
CALIFORNIA				
LA JOLLA				
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN DIEGO				
GM42155-00	ORLOFF, MARSHALL J		EVALUATION OF SURGICAL RESEARCH	46,249
INSTITUTION TOTAL	1	46,249		
CITY TOTAL	1	46,249		
SAN FRANCISCO				
R. K. DAVIES MEDICAL CENTER-FRANKLIN HOSPITAL				
AM42202-00	GOTCH, FRANK A		EVALUATION OF HOLLOW-FIBER DIALYZERS	110,000
INSTITUTION TOTAL	1	110,000		
CITY TOTAL	1	110,000		
STATE TOTAL	2	156,249		
DIST OF COL				
WASHINGTON				
GEORGETOWN UNIVERSITY				
CN45062-00	ABERNATHY, MARGARET R		EARLY DETECTION OF CANCER OF THE BREAST	135,318
INSTITUTION TOTAL	1	135,318		
CITY TOTAL	1	135,318		
STATE TOTAL	1	135,318		
MAINE				
BAR HARBOR				
JACKSON LABORATORY				
ES42159-00	RODERICK, THOMAS H		DEVELOPMENT OF A NEW MOUSE STRAIN	33,845
INSTITUTION TOTAL	1	33,845		
CITY TOTAL	1	33,845		
STATE TOTAL	1	33,845		
MARYLAND				
BALTIMORE				
JOHNS HOPKINS UNIVERSITY				
CP43266-00	JOHNSON, RICHARD T		STUDY OF NEW PAPOVIRUSES ISOLATED FROM MAN	111,526
CP43288-00	STRANDBERG, JOHN		PATHOLOGY SERVICES AND STUDIES	105,843
INSTITUTION TOTAL	2	217,369		

NIH
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
CITY TOTAL	2	217,369	
MARYLAND			
BETHESDA			
LITTON INDUSTRIES, INC.--LITTON BIONETICS			
CP43274-00	DARROW, CLEMENT C	STUDY OF CARCINOGENESIS IN HUMAN BRONCHIAL TISSUES	106,845
INSTITUTION TOTAL	1	106,845	
CITY TOTAL	1	106,845	
RIVERDALE			
WOLF RESEARCH AND DEVELOPMENT CORPORATION			
CP43257-00	TIDWELL, DALTON	DATA-PROCESSING SERVICES FOR CANCER BIOASSAY SYSTEM	250,093
INSTITUTION TOTAL	1	250,093	
CITY TOTAL	1	250,093	
ROCKVILLE			
AMERICAN TYPE CULTURE COLLECTION			
RR42158-00	DONOVICK, RICHARD	COLLECTION OF LIVING REFERENCE STRAINS	366,667
INSTITUTION TOTAL	1	366,667	
CITY TOTAL	1	366,667	
STATE TOTAL	5	940,974	
NEW HAMPSHIRE			
HANOVER			
DARTMOUTH COLLEGE			
LM44704-00	NOT APPLICABLE	SUPPORT FOR OPERATION OF MICROWAVE TELEVISION NETWORK	199,886
INSTITUTION TOTAL	1	199,886	
CITY TOTAL	1	199,886	
STATE TOTAL	1	199,886	
NEW JERSEY			
PRINCETON			
EXCERPTA MEDICA FOUNDATION			
GM42157-00	VINKEN, PIERRE J	ABSTRACTS ON HUMAN GENETICS	15,252
INSTITUTION TOTAL	1	15,252	
CITY TOTAL	1	15,252	

NIH
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR		SCOPE OF WORK	DOLLARS AWARDED
STATE TOTAL	1	15,252		
NEW YORK				
BUFFALO				
NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE--BUFFALO STATE HOSPITAL				
CB43900-00	DAO, THOMAS L		STUDY OF STEROID SULFATION AND ESTROGEN-BINDING	152,000
INSTITUTION TOTAL	1	152,000		
CITY TOTAL	1	152,000		
STATE TOTAL	1	152,000		
NORTH CAROLINA				
DURHAM				
DUKE UNIVERSITY				
CN45064-00	LESTER, RICHARD G		EARLY DETECTION OF CANCER OF THE BREAST	130,354
INSTITUTION TOTAL	1	130,354		
CITY TOTAL	1	130,354		
STATE TOTAL	1	130,354		
PENNSYLVANIA				
LANCASTER				
ST. JOSEPH HOSPITAL				
HD42816-00	COURSIN, DAVID B		DEVELOPMENT OF EEG RECORDING SYSTEM	90,000
INSTITUTION TOTAL	1	90,000		
CITY TOTAL	1	90,000		
PHILADELPHIA				
FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA				
AM42204-00	KLEINSTEIN, BRUCE		PREPARATION OF GASTROENTEROLOGY ABSTRACTS AND CITATIONS	90,019
INSTITUTION TOTAL	1	90,019		
TEMPLE UNIVERSITY				
CP43271-00	FORBES, P D		STUDY OF INDUCED CANCER OF THE SKIN	313,407
INSTITUTION TOTAL	1	313,407		
CITY TOTAL	2	403,426		

NIH
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
PENNSYLVANIA			
PITTSBURGH			
ALLEGHENY GENERAL HOSPITAL			
CB43899-00	SCHIFFER, LEWIS M	STUDY OF CELL KINETICS OF BREAST CANCER	120,000
INSTITUTION TOTAL	1	120,000	
CITY TOTAL	1	120,000	
STATE TOTAL	4	613,426	
TEXAS			
DALLAS			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS			
HD42813-00	TEMPLETON, GORDON H	EFFECT OF AGE ON PROPERTIES OF THE LEFT VENTRICLE	43,134
INSTITUTION TOTAL	1	43,134	
CITY TOTAL	1	43,134	
SAN ANTONIO			
SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION			
ES42154-00	BOLLINGER, JAMES N	INTERACTION OF SPECIFIC AIR POLLUTANTS WITH LUNG LIPIDS	167,757
INSTITUTION TOTAL	1	167,757	
CITY TOTAL	1	167,757	
STATE TOTAL	2	210,891	
WISCONSIN			
MADISON			
UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN-MADISON			
HD42815-00	BUMPASS, LARRY L	MICROFILMING SERVICES	3,060
INSTITUTION TOTAL	1	3,060	
CITY TOTAL	1	3,060	
STATE TOTAL	1	3,060	
NORWAY			
TRONDHEIM			
UNIVERSITY OF TRONDHEIM			
HD42812-00	EIK-NES, KRISTEN B	STUDY OF ANDROGENS IN MALE SEX ORGANS	95,860
INSTITUTION TOTAL	1	95,860	
CITY TOTAL	1	95,860	

NIH
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
STATE TOTAL	1		95,860
TOTAL	21		2,687,115

NIH
RESEARCH CAREER PROGRAM AWARDS

GRANT NUMBER	AWARDEE	AREA OF TRAINING	PROGRAM
ALABAMA			
BIRMINGHAM			
UNIVERSITY OF ALABAMA IN BIRMINGHAM			
AI70780-01	LAWTON, ALEXANDER R, III	DIFFERENTIATION OF B-LYMPHOCYTES	K04
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		
CALIFORNIA			
SAN FRANCISCO			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO			
AI70738-01	WANG, AN-CHUAN	GENETICS AND STRUCTURE OF IMMUNOGLOBULINS	K04
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		
MASSACHUSETTS			
BOSTON			
HARVARD UNIVERSITY			
AI70796-01	ROCKLIN, ROSS E	MECHANISMS OF CELLULAR IMMUNITY IN MAN	K04
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		
TOTAL	3		

NIH
MEDICAL LIBRARY GRANTS

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
ARKANSAS			
LITTLE ROCK			
UNIVERSITY OF ARKANSAS MEDICAL CENTER			
LM02249-01	HOGAN, ROSE	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	20,550
INSTITUTION TOTAL	1	20,550	
CITY TOTAL	1	20,550	
STATE TOTAL	1	20,550	
HAWAII			
HONOLULU			
HAWAII MEDICAL LIBRARY			
LM02235-01	WINTERS, CLYDE J	HEALTH INFORMATION NETWORK OF THE PACIFIC	27,966
INSTITUTION TOTAL	1	27,966	
CITY TOTAL	1	27,966	
STATE TOTAL	1	27,966	
ILLINOIS			
CHICAGO			
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER			
LM02009-01	CAMPBELL, JOAN	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	13,667
INSTITUTION TOTAL	1	13,667	
CITY TOTAL	1	13,667	
URBANA			
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT URBANA			
LM01994-01	DAVIS, ELISABETH B	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	2,500
INSTITUTION TOTAL	1	2,500	
CITY TOTAL	1	2,500	
STATE TOTAL	2	16,167	
NEW JERSEY			
BELLEVILLE			
CEREBRAL PALSY CENTER OF ESSEX AND WEST HUDSON COUNTIES			
LM01895-01	VERNICK, V	MEDICAL LIBRARY RESOURCE IMPROVEMENT SUPPORT	3,000
INSTITUTION TOTAL	1	3,000	
CITY TOTAL	1	3,000	

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	
STATE TOTAL	1		3,000

OKLAHOMA
LAWTON
CAMERON COLLEGE

LM02236-01	BYRN, JAMES H	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	
INSTITUTION TOTAL	1		19,600
CITY TOTAL	1		19,600
STATE TOTAL	1		19,600

TEXAS
HOUSTON
TEXAS MEDICAL CENTER

LM01757-01	HITT, SAM W	MEDICAL LIBRARY RESOURCE SUPPORT	
INSTITUTION TOTAL	1		58,000
CITY TOTAL	1		58,000
STATE TOTAL	1		58,000

VIRGINIA
NORFOLK
NORFOLK AREA MEDICAL CENTER--EASTERN VIRGINIA MEDICAL SCHOOL

LM01871-01	CRAMER, ANNE	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	
INSTITUTION TOTAL	1		45,000
CITY TOTAL	1		45,000
STATE TOTAL	1		45,000
TOTAL	8		190,283

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